

ABSTRACT OF THE DISCLOSURE

A method is provided for controlling RAM variables embedded in a microprocessor software executable without modifications to the underlying source code. The method includes: presenting an software program having a plurality of machine instructions of a finite number of fixed lengths in an executable form; searching through the machine instructions of the executable and finding at least one appropriate instruction to replace; defining a replacement instruction for identified machine instructions in the software program; and replacing identified machine instructions in the executable form of the software program with the replacement instruction. The replacement instruction may be further defined as a branch instruction that references an address outside an address space for the software program.